Sheet 1 of 1

| Form PTO-14<br>(Rev. 8-88) | U.S. Department of Patent and Tradema    | Commence E           | 770            | Attorney Docket No.: 1990.659  | Serial No.: 10/045,738 |                   |                                       |         |  |  |  |
|----------------------------|--|----------------------|----------------|--|------------------------|-------------------|---------------------------------------|---------|--|--|--|
| INFORMAT                   | ION DISCLOSURE CITA                      |                      |                | Applicant: Ichihara et al.   |                        |                   |                                       |         |  |  |  |
| (Use several               | ION DISCLOSURE CITA sheets if necessary) |                      | OFFICE         | Filing Date: 10-29-01  |                        | Group:263         | Γ                                     |         |  |  |  |
| U.S. PATEN                 | T DOCUMENTS                              | FRADEMARY IRADEMARY  | 7              |  |                        |                   |                                       |         |  |  |  |
| Examiner<br>Initial*       |  |                      |                |  |                        |                   | Filing Date                           |         |  |  |  |
| Inidai                     | Document Number                          | Date                 | Name           |  | Class                  | Subclass          | If Appro                              | opriate |  |  |  |
|                            |  |                      |                | <del></del>  |                        |                   |                                       |         |  |  |  |
|                            |  |                      |                |  |                        |                   |                                       | -       |  |  |  |
|                            |  |                      |                | ·  |                        |                   |                                       |         |  |  |  |
|                            |  |                      |                |  |                        |                   |                                       |         |  |  |  |
|                            |  |                      |                |  | RECE                   | IVED              |                                       |         |  |  |  |
|                            |  |                      |                |  | APR 1                  | <del>2 2002</del> |                                       |         |  |  |  |
|                            |  |                      |                |  |                        |                   |                                       |         |  |  |  |
|                            |  |                      |                | Tel  | chnology               | Center 260        | 00                                    |         |  |  |  |
| FOREIGN PA                 | ATENT DOCUMENTS                          |                      |                |  |                        |                   |                                       |         |  |  |  |
|                            |  |                      |                |  |                        |                   | Translatio                            | on      |  |  |  |
|                            | Document Number                          | Date                 | Country        |  | Class                  | Subclass          | Yes                                   | No      |  |  |  |
| M                          | 4-182968                                 | Jun. 30, 1992        | Japan          |  |                        |                   | Abs.                                  |         |  |  |  |
| M                          | 11-312984                                | Nov. 9, 1999         | Japan          |  |                        |                   | Abs.                                  |         |  |  |  |
|                            |  |                      |                |  |                        | ,                 |                                       |         |  |  |  |
|                            |  |                      |                |  |                        |                   |                                       |         |  |  |  |
|                            |  |                      |                | ·····  |                        |                   |                                       |         |  |  |  |
|                            |  |                      |                |  |                        |                   |                                       |         |  |  |  |
| OTHER DOC                  | CUMENTS (Including Aut)                  | hor Title Date De    | ertinent Pages | Etc.)  | <u>.i</u>              | <u>[</u>          |                                       |         |  |  |  |
| OTHER DOC                  | JOVIEN 13 (Metading Auti                 | noi, Title, Date, Fe | Tillent Fages, | , Etc.)  |                        |                   |                                       |         |  |  |  |
|                            |  |                      |                |  |                        |                   |                                       |         |  |  |  |
|                            |  |                      |                |  |                        |                   | · · · · · · · · · · · · · · · · · · · |         |  |  |  |
|                            |  |                      |                |  |                        | · .               |                                       |         |  |  |  |
|                            | <u> </u>                                 |                      |                | <del></del>  |                        |                   |                                       |         |  |  |  |
|                            |  |                      |                |  |                        |                   |                                       |         |  |  |  |
|                            |  |                      |                |  | /                      |                   |                                       |         |  |  |  |
| Examiner                   | tel                                      | 1                    | Date           | Considered 4//   | 19/0                   | 4                 |                                       |         |  |  |  |
| *Examiner:                 | Initial if ci                            | itation considered,  | whether or no  | ot citation is in conformance with ered. Include copy of this form v | n MPEP 60              | 9; Draw line      | through ci                            | tation  |  |  |  |

| OIP   | E             | $\lambda$ |       |      |      |                  |         |                                     |                    |                          |             |                       |                      |  |             |
|---|---------------|-----------|-------|------|------|------------------|---------|-------------------------------------|--------------------|--------------------------|-------------|-----------------------|----------------------|--|-------------|
| Form PTO-1449  S. Department of Commerce (Rev. 8-88)  Patent and Trademark Office |               |           |       |      |      |                  |         |                                     |                    | Attorney D<br>1990.65934 |             | Serial No. 10/045,738 |                      |  |             |
| INFORMATION DISCOSURE CITATION (Use several preets if necessary)                  |               |           |       |      |      |                  |         |                                     |                    |                          | Applicant:  | Ichihara et al.       |                      |  |             |
|   |               |           |       |      |      |                  |         |                                     |                    |                          | Filing Date | : October 29, 2001    | Group No. 26\$1      |  |             |
| <del></del>   | ι             | J.S. I    | PATI  | ENT  | DO   | CUM              | ENTS    |                                     |                    |                          |             |                       |                      |  | Agl         |
| xaminer<br>nitial*  | Document No.  |           |       |      |      |                  |         | Date Name                           |                    |                          |             | Class Subclass        |                      | Filing Date                            |             |
| 7/  | 5 7 5 4 3 5 3 |           |       |      |      | 3                | 5 3     | May 19, 1998 Behrer                 |                    | ns et al.                |             |                       |                      | November 17, 1994<br>December 13, 1995 |             |
| 0:  | 5 8 8         |           |       |      |      |                  | 2 3     |                                     | Agazzi et al. Zook |                          |             |                       |                      |  |             |
| ort   | 6 1 8 5 1     |           |       | 1    | 7 5  | February 6, 2001 |         | 9                                   |                    |                          |             | December 2, 1998      |                      |  |             |
|   |               |           |       |      |      | $\Box$           |         |                                     |                    |                          |             |                       |                      |  |             |
|   | FC            | REIC      | SN P  | ATI  | ENT  | DOC              | UMEN    | I                                   | 1                  |                          |             | !                     |                      |  |             |
|   | Document No.  |           |       |      | Date |                  | Country | c                                   | lass               | Subclass                 | Translatio  | on                    |                      |  |             |
|   |               |           |       |      |      |                  |         |                                     |                    |                          |             |                       |                      | Yes                                    | No          |
| 0   | 8             | 0         | 1     | 4    | 8    | 4                | A2      | October 15, 1997                    |                    | Europe                   |             |                       |                      | X                                      |             |
| 0   | 8             | 0         | 1     | 4    | 8    | 4                | А3      |                                     |                    | Europe                   |             |                       |                      | Х                                      |             |
| $\Omega / 1$  | 1             | 2         | 3     | 8    | 3    | 2                | 0       | August 31, 1991                     |                    | Japan                    |             | l d                   | X                    | Abs.                                   |             |
| 2000  | 9             |           |       | 1    |      | 0                | 4       |                                     | September 22, 1997 |                          |             | RE                    | CEIVED               | Abs.                                   |             |
| 620   | 3             | 2         |       | 8    | _    |                  | 3       |                                     | December 10, 1991  |                          |             | /oc                   | 3 0 2002             | Abs.                                   |             |
| A/ 0  | 1             | 3         | 0     | 9    | 5    | 4                | 9       | December 13, 198                    | 89                 | Japan                    |             | Turhnou               | NOW CONTOS USIN      | Abs.                                   |             |
| OTHER DOCL  | UMEI          | ٧TS       | (Inc  | lud  | ing  | Auth             | or, T   | itle, Date, Pertinent Pag           | ges, Etc.)         |                          |             | 10011101              | ogy Center 2600      | )                                      |             |
| 92  |               |           |       |      |      |                  |         | R IN MAGNETIC RECOR<br>ages 621-622 | RDING; (           | Conway T., et            | al., E      | lectronics            | Letters, IEE Steve   | enage, GB,                             | Vol. 32,    |
|   |               |           |       |      |      |                  |         |                                     |                    |                          |             |                       |                      |  |             |
|   |               |           |       |      |      |                  |         |                                     |                    |                          |             |                       |                      |  |             |
|   |               |           |       |      |      |                  |         |                                     |                    |                          |             |                       |                      |  |             |
| <b>\</b>  |               |           |       |      |      |                  |         |                                     |                    |                          |             | <u>-</u>              |                      |  | <del></del> |
|   |               |           |       |      |      | _                |         | *                                   |                    |                          |             |                       |                      |  |             |
|   |               |           |       |      |      |                  |         |                                     |                    |                          |             |                       |                      |  | i           |
| Examiner  | /             | _         | /     | /    | 9    | <i>f</i>         |         |                                     | Date Cons          | idered 4                 | //.         | 9/0                   | 4                    |  |             |
| Evaminar: Init  | rial i        | Cit:      | ation | 0.00 | nei  | dere             | d wh    | ether or not citation is            | in conform         | anco with MPE            | P 400:      | Oraw line th          | rough citation if no | nt in conform                          | 3000        |
|   |               |           |       |      |      |                  |         |                                     |                    |                          |             |                       |                      |  |             |